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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/566,031	01/18/2006	Hideo Hara	40404.19/mo	9352	
	54068 7590 09/29/2008 ROHM CO., LTD.			EXAMINER	
C/O KEATING	& BENNETT, LLP	LEE, MICHAEL			
SUITE 200	1800 Alexander Bell Drive SUITE 200 Reston, VA 20191		ART UNIT	PAPER NUMBER	
Reston, VA 201			2622		
			NOTIFICATION DATE	DELIVERY MODE	
			09/29/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JKEATING@KBIPLAW.COM uspto@kbiplaw.com

	Application No.	Applicant(s)				
	10/566,031	HARA ET AL.				
Office Action Summary	Examiner	Art Unit				
	M. Lee	2622				
The MAILING DATE of this communication ap						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>18 J</u>	anuary 2006					
	s action is non-final.					
3) Since this application is in condition for allowa	/ 					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4 and 8</u> is/are rejected.	6)⊠ Claim(s) <u>1-4 and 8</u> is/are rejected.					
7) Claim(s) <u>5-7</u> is/are objected to.	Claim(s) <u>5-7</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
S) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Information Disclosure Statement(s) (PTO/SB/08) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka (4,319,275).

Regarding claim 1, Tanaka discloses a sync separation system showing a low-pass filter (10) and a comparator 12 for separating a synchronization signal, which meet the synchronization unit as claimed, and a microcomputer unit 14 for comparing a memory content with a predetermined reference value triggered by a FLAG 16 signal and generating a VSYNC detection signal (col. 7, lines 31-64). The reference value is adjustable by the microcomputer (note col. 6, lines 21-67). However, Tanaka does not disclose that the cutoff frequency of the low-pass filter is adjustable. In any event, the examiner takes Official Notice that using cutoff frequency adjustable low-pass filter, such as a RC circuit with a variable resistor or a capacitor, to filter a signal is well known in the art because it enables the low passing frequency spectrum be adjusted conveniently in order to compensate circuit parameter fluctuations. For instance, one of the well known parameters is temperature. Temperature can change the frequency response of the filter and thus cause inaccurate filtering. Hence, it would have been obvious to one of ordinary skill in the art at the time that the invention was made to

modify Tanaka so that the cutoff frequency of the low-pass filter could be adjusted in order to compensate circuit parameter fluctuations.

Regarding claims 2 and 3, in addition of above, it would also have been obvious to include a logic circuit to output the cutoff frequency adjustment to the low-pass filter from the microcomputer 14 in order to further enhance the operability of the system.

Regarding claim 4, see Official Notice taken above.

Regarding claim 8, although not shown, the microcomputer 14 is hinting to be integrated into a semiconductor IC chip since an IC chip consumes less energy than its discrete component counterpart. Hence, it would have been obvious to one of ordinary skill in the art at the time that the invention was made to integrate the logic circuit and the microcomputer 14 into a single semiconductor IC chip so that the energy consumption rate could be reduced.

Allowable Subject Matter

3. Claims 5-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hiraguri (4,158,857) shows a mono-multi vibrator.

White (6,108,043) shows a low-pass filter.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Lee whose telephone number 571-272-7349. The examiner can normally be reached on Monday through Thursday from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran, can be reached on 571-272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/M. Lee/ Primary Examiner Art Unit 2622